

Amendments to the claims:

Claims 1 – 30 (Canceled)

31. **(Previously amended):** Diagnostic test for the detection of antibodies against *Lawsonia intracellularis*, wherein said test comprises a protein or a fragment thereof as defined in **claim 34**.

32. **(Previously amended):** Diagnostic test for the detection of antigenic material of *Lawsonia intracellularis*, wherein said test comprises antibodies against a protein or a fragment thereof as defined in claim 34.

33. **(Canceled)**

34. **(Previously amended):** An isolated *Lawsonia intracellularis* protein, or an immunogenic fragment thereof, selected from the group consisting of SEQ ID NO: 2, SEQ ID NO: 4, SEQ ID NO: 6, SEQ ID NO: 8, SEQ ID NO: 10, SEQ ID NO: 12, SEQ ID NO: 14, SEQ ID NO: 16, and SEQ ID NO: 18.

35. **(Previously presented):** A vaccine for combating *Lawsonia intracellularis* infection, comprising at least one protein according to claim 34, and a pharmaceutically acceptable carrier.

36. **(Currently amended):** An [The] isolated nucleic acid [of claim 33,] selected from the group consisting of SEQ ID NO: 1, SEQ ID NO: 3, SEQ ID NO: 5, SEQ ID NO: 7, SEQ ID NO: 9, SEQ ID NO: 11, SEQ ID NO: 13, SEQ ID NO: 15, and SEQ ID NO: 17.

37-39. **(Cancelled)**

40. **(Previously presented):** The isolated protein of claim 34, consisting of SEQ ID NO.: 2.

41. **(Previously presented):** The isolated nucleic acid of claim 36, consisting of SEQ ID NO.: 1.